

Amendments to the Claims:

This listing of claims replaces all prior versions and listings of claims in this application.

Listing of Claims:

1. (Currently Amended) A pressure sensitive adhesive comprising:
a silicone tackifying resin;
a polydiorganosiloxane polyurea copolymer; and
a plasticizer;
wherein the silicone tackifying resin and polydiorganosiloxane polyurea copolymer are generally uniformly distributed; and wherein the pressure sensitive adhesive is organic solvent-based.
2. (Original) The pressure sensitive adhesive of claim 1 wherein the silicone tackifying resin is present in an amount of at least at 55 wt-%, based on the weight of the silicone tackifying resin and the polydiorganosiloxane polyurea copolymer.
3. (Original) The pressure sensitive adhesive of claim 2 wherein the silicone tackifying resin is present in an amount of at least about 58 wt-%, based on the weight of the silicone tackifying resin and the polydiorganosiloxane polyurea copolymer.
4. (Original) The pressure sensitive adhesive of claim 1 wherein the plasticizer is a hydrocarbon.
5. (Original) The pressure sensitive adhesive of claim 1 wherein the plasticizer is a glycol ether, an ester, an alcohol, an ester alcohol, a ketone, an amine, or an organic substituted silicone oil.
6. (Original) The pressure sensitive adhesive of claim 1 wherein the plasticizer is an ester, an oil, an organosiloxane, or combinations thereof.

- $$\left[\text{N} \begin{array}{c} | \\ \text{H} \end{array} \text{---} \text{Z} \text{---} \text{N} \begin{array}{c} | \\ \text{H} \end{array} \text{---} \text{C} \begin{array}{c} \text{O} \\ || \end{array} \text{---} \text{N} \begin{array}{c} | \\ \text{E} \end{array} \text{---} \text{Y} \text{---} \text{Si} \begin{array}{c} | \\ \text{R} \\ | \\ \text{R} \end{array} \text{---} \text{O} \text{---} \text{Si} \begin{array}{c} | \\ \text{R} \\ | \\ \text{R} \end{array} \text{---} \text{Y} \text{---} \text{N} \begin{array}{c} | \\ \text{E} \end{array} \text{---} \text{C} \begin{array}{c} \text{O} \\ || \end{array} \right]_n \left[\text{N} \begin{array}{c} | \\ \text{H} \end{array} \text{---} \text{Z} \text{---} \text{N} \begin{array}{c} | \\ \text{H} \end{array} \text{---} \text{C} \begin{array}{c} \text{O} \\ || \end{array} \text{---} \text{A} \text{---} \text{B} \text{---} \text{A} \text{---} \text{C} \begin{array}{c} \text{O} \\ || \end{array} \right]_m$$

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each R is independently an alkyl moiety, a vinyl moiety or higher alkenyl moiety, a cycloalkyl moiety, an aryl moiety, or a fluorine-containing group;

each Z is independently a polyvalent moiety that is an arylene moiety, an aralkylene moiety, an alkylene moiety, or a cycloalkylene moiety;

each Y is independently a polyvalent moiety that independently is an alkylene moiety, an aralkylene moiety or an arylene moiety;

each E is independently hydrogen, an alkyl moiety of 1 to 10 carbon atoms, phenyl, or a moiety that completes a ring structure including Y to form a heterocycle;

each A is independently oxygen or —N(G)— , wherein each G is independently hydrogen, an alkyl moiety of 1 to 10 carbon atoms, phenyl, or a moiety that completes a ring structure including B to form a heterocycle;

B is an alkylene, aralkylene, cycloalkylene, phenylene, polyalkylene, polyalkylene oxide, copolymers, or mixtures thereof, or a moiety completing a ring structure including A to form a heterocycle;

m is a number that is 0 to about 1000;

n is a number that is equal to or greater than 1; and

p is a number that is about 5 or larger.

14. (Original) The pressure sensitive adhesive of claim 13 wherein at least 50% of the R moieties are methyl moieties with the balance being monovalent alkyl or substituted alkyl moieties having 1 to 12 carbon atoms, alkenylene moieties, phenyl moieties, or substituted phenyl moieties.

15. (Original) The pressure sensitive adhesive of claim 13 wherein m is a number that is 0 to about 25.

16. (Original) The pressure sensitive adhesive of claim 13 wherein n is a number that is greater than 8.

17. (Original) The pressure sensitive adhesive of claim 13 wherein p is a number that is about 70 to about 1500.

18. (Original) A pressure sensitive adhesive comprising:
a silicon tackifying resin;
a polydiorganosiloxane polyurea copolymer; and
a plasticizer;
wherein the silicone tackifying resin and polydiorganosiloxane polyurea copolymer are generally uniformly distributed; and
wherein the silicone tackifying resin is present in an amount of at least about 55 wt-%, based on the weight of the silicone tackifying resin and the polydiorganosiloxane polyurea copolymer.
19. (Original) A pressure sensitive adhesive solution comprising:
a silicone tackifying resin;
a polydiorganosiloxane polyurea copolymer;
a processing aid; and
an organic solvent.
20. (Original) The pressure sensitive adhesive solution of claim 19 wherein the processing aid is transient.
21. (Original) The pressure sensitive adhesive solution of claim 19 wherein the processing aid is permanent.
22. (Original) The pressure sensitive adhesive solution of claim 19 wherein the silicone tackifying resin is present in an amount of at least about 55 wt-%, based on the weight of the silicone tackifying resin and the polydiorganosiloxane polyurea copolymer.
23. (Original) The pressure sensitive adhesive solution of claim 22 wherein the silicone tackifying resin is present in an amount of at least about 58 wt-%, based on the weight of the silicone tackifying resin and the polydiorganosiloxane polyurea copolymer.

24. (Original) The pressure sensitive adhesive solution of claim 19 wherein the processing aid is a hydrocarbon.

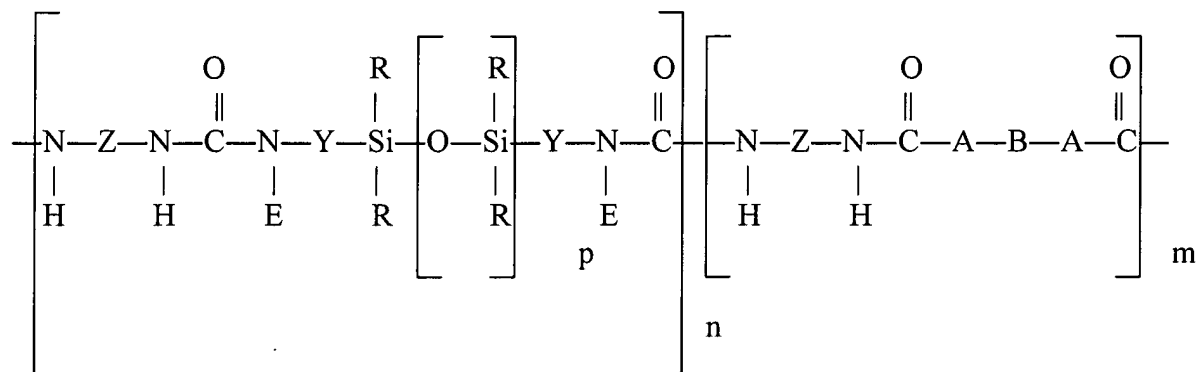
25. (Original) The pressure sensitive adhesive solution of claim 19 wherein the processing aid is a glycol ether, an ester, an alcohol, and ester alcohol, a ketone, an amine, or an organic substituted silicone oil.

26. (Original) The pressure sensitive adhesive solution of claim 19 wherein the processing aid is an ester, an oil, an organosiloxane, or combinations thereof.

27. (Original) The pressure sensitive adhesive solution of claim 19 wherein the processing aid is an antioxidant, a bacteriostatic agent, a UV light stabilizer, a UV light absorber, or combinations thereof.

28. (Original) The pressure sensitive adhesive solution of claim 19 wherein the processing aid is present in an amount of at least about 0.5 wt-%, based on the total weight of the pressure sensitive adhesive.

29. (Original) The pressure sensitive adhesive solution of claim 19 wherein the polydiorganosiloxane polyurea copolymer comprises the following repeating unit:



where:

each R is independently an alkyl moiety, a vinyl moiety or higher alkenyl moiety, a cycloalkyl moiety, an aryl moiety, or a fluorine-containing group;

each Z is independently a polyvalent moiety that is an arylene moiety, an aralkylene moiety, an alkylene moiety, or a cycloalkylene moiety;

each Y is independently a polyvalent moiety that independently is an alkylene moiety, an aralkylene moiety or an arylene moiety;

each E is independently hydrogen, an alkyl moiety of 1 to 10 carbon atoms, phenyl, or a moiety that completes a ring structure including Y to form a heterocycle;

each A is independently oxygen or —N(G)— , wherein each G is independently hydrogen, an alkyl moiety of 1 to 10 carbon atoms, phenyl, or a moiety that completes a ring structure including B to form a heterocycle;

B is an alkylene, aralkylene, cycloalkylene, phenylene, polyalkylene, polyalkylene oxide, copolymers, or mixtures thereof, or a moiety completing a ring structure including A to form a heterocycle;

m is a number that is 0 to about 1000;

n is a number that is equal to or greater than 1; and

p is a number that is about 5 or larger.

30. (Original) An adhesive article comprising a backing and the pressure sensitive adhesive of claim 1 disposed on at least one major surface thereof.

31. (Original) The adhesive article of claim 30 which is a transfer tape.

32. (Original) An adhesive article comprising a backing and the pressure sensitive adhesive of claim 18 disposed on at least one major surface thereof.

33. (Original) The adhesive article of claim 32 which is a transfer tape.

34. (Original) An adhesive article comprising a backing and a pressure sensitive adhesive deposited from the solution of claim 19 disposed on at least one major surface thereof.

35. (Original) The adhesive articles of claim 34 which is a transfer tape.

36. (Currently Amended) A method of making a pressure sensitive adhesive comprising combining a silicone tackifying resin, a polydiorganosiloxane polyurea copolymer, and a processing aid in amounts effective to form a pressure sensitive adhesive wherein the silicone tackifying resin and polydiorganosiloxane polyurea copolymer are generally uniformly distributed, wherein the silicone tackifying resin, polydiorganosiloxane polyurea copolymer, and processing aid are combined in an organic solvent.

37. (Cancelled)

38. (Original) The method of claim 37 wherein the processing aid is transient.

39. (Original) The method of claim 37 wherein the processing aid is permanent.

40. (Original) The method of claim 36 wherein the processing aid is permanent.

41. (Original) The method of claim 36 wherein the processing aid is an antioxidant, a bacteriostatic agent, a UV light stabilizer, a UV light absorber, or combinations thereof.

42. (New) The pressure sensitive adhesive of claim 1 wherein the plasticizer is selected to provide the pressure sensitive adhesive with an improvement in tack of at least 10% relative to an identical composition but not containing the plasticizer.

43. (New) The pressure sensitive adhesive of claim 18 wherein the plasticizer is selected to provide the pressure sensitive adhesive with an improvement in tack of at least 10% relative to an identical composition but not containing the plasticizer.

44. (New) The pressure sensitive adhesive of claim 19 wherein the processing aid is selected to provide the pressure sensitive adhesive with an improvement in tack of at least 10% relative to an identical composition but not containing the processing aid.

45. (New) The method of claim 36 wherein the processing aid is selected to provide the pressure sensitive adhesive with an improvement in tack of at least 10% relative to an identical composition but not containing the processing aid.

Support for Amendments

Claim 1 is amended to more clearly reflect that the pressure sensitive adhesive is organic solvent-based. The specification at page 14, lines 5-8, provides that the solvent-based adhesive compositions refer to those adhesive compositions coated out of an organic solvent.

Claim 36 is amended to incorporate the features of claim 37. In addition, claim 37 is cancelled.

New claims 42-45 are introduced dependent on independent claims 1, 18, 19, and 36, and characterize the plasticizer or processing aid as selected to provide an improvement in tack of at least 10% relative to an otherwise identical pressure sensitive adhesive but not containing the plasticizer or processing aid. This amendment is supported by the specification at page 15, lines 13-15. It is pointed out that the specification provides that plasticizers are a type of processing aid. See the specification at page 14, lines 5-8.

It is submitted that the amendment introduces no new matter, and entry thereof is requested. Upon entry, claims 1-8, 10-36, and 38-45 are active in this application.